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## TELEFAX

Date: November 5, 2004  
Total pages: 13 with fax cover  
To: USPTO  
Telephone:  
Telefax: 703-872-9306  
From: Tiffany Salmon  
Telephone: 404-879-2153  
Telefax: 404-879-2160  
Our Docket No. VAC 104  
Your Docket No.  
Client/Matter No. 095150/10

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### MESSAGE:

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Charles A. Vacanti and Martin P. Vacanti

Serial No: 10/792,302 Art Unit: 1651

Filed: March 3, 2004

For: *ISOLATION OF SPORE-LIKE CELLS FROM TISSUES EXPOSED TO  
EXTREME CONDITIONS*

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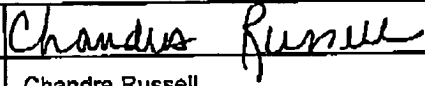
PTO/SB/21 (09-04)

Approved for use through 07/31/2006 OMB 0851-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/792,302	
	Filing Date	March 3, 2004	
	First Named Inventor	Charles A. Vacanti	
	Art Unit	1651	
	Examiner Name		
Total Number of Pages in This Submission	12	Attorney Docket Number	VAC 104

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.62 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input checked="" type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): 1. Statement under 37 CFR 3.73 (b) 2. Assignment
Remarks		
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm Name	Pabst Patent Group LLP	
Signature		
Printed name	Tiffany B. Salmon	
Date	November 5, 2004	Reg. No. 55,589

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I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:		
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Typed or printed name	Chandra Russell	November 5, 2004

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VAC 104 095150/10

PTO/SB/82 (08-04)

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**REVOCATION OF POWER OF  
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Application Number	10/792,302
Filing Date	March 3, 2004
First Named Inventor	Martin P. Vacanti
Art Unit	1651
Examiner Name	
Attorney Docket Number	VAC 104

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint the practitioners associated with the Customer Number:

23579

☒ Please change the correspondence address for the above-identified application to:

☒ The address associated with  
Customer Number:

23579

OR

☐ Firm or  
Individual Name

Address

City

State

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I am the:

☐ Applicant/Inventor.

☒ Assignee of record of a joint interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

**SIGNATURE of Applicant or Assignee of Record**

Signature

Name

Date

Telephone

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Martin P. Vacanti and Charles A. VacantiApplication No./Patent No.: 10/792,302 Filed/Issue Date: March 3, 2004Entitled: Isolation of Spore-Like Cells From Tissues Exposed to Extreme ConditionsCharles A. Vacanti, Martin P. Vacanti, and Joseph P. Vacantithe individuals

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

state that they are:

1. ☒ the assignee of a joint, undivided interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_ %  
in the patent application/patent identified above by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Martin P. Vacanti and Charles A. Vacanti To: The University of Massachusetts  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: The University of Massachusetts To: Charles A. Vacanti, Martin P. Vacanti, and Joseph P. Vacanti  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
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☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.  
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

10/21/04  
Date  
617-732-8211  
Telephone number

CHARLES A. VACANTI, MD  
Typed or printed name  
Charles A. Vacanti  
Signature  
PROFESSOR AND CHAIR  
Title

VAC 104 - 095150/00010

Attorney Docket No: 07917-135001

ASSIGNMENT

For valuable consideration, we, MARTIN P. VACANTI of 297 Turnpike Road, #615 Westborough, MA 01581, CHARLES A. VACANTI, M.D. of Five Bushnell Drive Lexington, MA 02173, hereby assign to: University of Massachusetts, a Massachusetts corporation having a place of business at: One Beacon Street, 26th Floor, Boston, MA 02108; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled ISOLATION OF SPORE-LIKE CELLS FROM TISSUES EXPOSED TO EXTREME CONDITIONS, filed October 30, 2001, and assigned U.S. Serial Number 10/020,778, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Attorney Docket No: 07917-135001

IN WITNESS WHEREOF, I hereto set my hand and seal at Worcester, Massachusetts,  
this 8th day of March, 20 02,  
Charles A. Vacanti L.S.  
CHARLES A. VACANTI, M.D.

State of Massachusetts ;  
: ss.  
County of Worcester :

Before me this 8th day of March, 20 02, personally  
appeared CHARLES A. VACANTI, M.D. known to me to be the person whose name is  
subscribed to the foregoing Assignment and acknowledged that he executed the same as his free  
act and deed for the purposes therein contained.

Debra J. Valle  
Notary Public Debra J. Valle  
My Commission Expires: October 24, 2008

[Notary's Seal Here]

20396862.doc

Attorney Docket No: 07917-135001

IN WITNESS WHEREOF, I hereto set my hand and seal at Worcester, Massachusetts,  
this 8th day of March, 2002

Martin P. Vacanti  
MARTIN P. VACANTI

L.S.

State of Massachusetts :

: ss.

County of Worcester :

Before me this 8th day of March, 2002, personally  
appeared MARTIN P. VACANTI known to me to be the person whose name is subscribed to  
the foregoing Assignment and acknowledged that he executed the same as his free act and deed  
for the purposes therein contained.

Debra J. Valle  
Notary Public Debra J. Valle

My Commission Expires: October 24, 2008

[Notary's Seal Here]

**ASSIGNMENT**

**The University of Massachusetts, a public institution of higher education of the Commonwealth of Massachusetts as represented by its Worcester Campus at 55 Lake Avenue North, Worcester, Massachusetts 01655 (hereinafter "the Assignor"), in consideration of ten dollars and other valuable consideration paid to it pursuant to the Assignment Agreement with the University of Massachusetts dated August 1, 2004, incorporated herein, by Charles A. Vacanti of 355 Pond Street, Uxbridge, Massachusetts 01569; Martin P. Vacanti of 8 Jennings Road, Westborough, Massachusetts 01581; and Joseph P. Vacanti of 14 Woodside Road, Winchester, Massachusetts 01890 (hereinafter "the Assignees"), the receipt of which is hereby acknowledged, does hereby sell, assign and transfer unto the Assignees, their successors and assigns, the entire interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in those certain inventions described in Appendix A, of which the Assignees are inventors or co-inventors (hereinafter "the Inventions"), and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on the Inventions, or any parts thereof, or on any provisional, divisional, continuation, continuation-in-part, reissue, or other applications based in whole or in part thereon. And the Assignor agrees, for itself and its executors and administrators, with the Assignees and their successors and assigns, but at their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to the Assignees, with specifications and claims in such form as shall be approved by the counsel of the Assignees, and to vest and confirm in the Assignees, their successors and assigns, the legal title to all such patents.**



ASSIGNMENT OF RIGHTS from  
The University of Massachusetts to  
Charles A. Vacanti, Martin P. Vacanti, and Joseph Vacanti

And the Assignor does hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon the Inventions or applications based thereon to the Assignees, their successors and assigns.

WITNESS my hand and seal this 3rd day of August, 2004.

UNIVERSITY OF MASSACHUSETTS

By: Chester A. Bisbee  
Typed name: Chester A. Bisbee  
Title: Acting Executive Director, OTM

Commonwealth of Massachusetts )  
County of Worcester )

Then personally appeared the above named Chester Bisbee,  
attested that he/she is an authorized signatory of The University of Massachusetts, and  
acknowledged the foregoing instrument to be his/her free act and deed, before me this  
3rd day of August, 2004.

Heather Steinman  
Notary Public

My Commission expires: April 28, 2011  
Heather Anne Steinman  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
April 28, 2011

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